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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/135,413	08/14/1998	LEONARD FORBES	303.354US2	9295
21186	7590 06/28/2006		EXAMINER	
SCHWEGM	AN, LUNDBERG, WO	NGUYEN, VIET Q		
P.O. BOX 293	8		ART UNIT	
MINNEAPOL	MINNEAPOLIS, MN 55402			PAPER NUMBER
	,		2827	

DATE MAILED: 06/28/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.		Applicant(s)				
Office Action Commons	09/135,413		FORBES ET AL.				
Office Action Summary	Examiner		Art Unit				
	Viet Q. Nguyen		2827				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on RCE	filed on 2/17/200	6.					
	action is non-fina						
3) Since this application is in condition for allowar			ecution as to the	e merits is			
closed in accordance with the practice under E	_						
Disposition of Claims							
4) Claim(s) 19-21, 28-38, 43 and 44 is/are pending	in the application	n.	•				
4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 19-21,28-38,43 and 44 are subject to restriction and/or election requirement.							
Application Papers							
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 							
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)		Interview Summary (F Paper No(s)/Mail Date Notice of Informal Pat	e	D-152)			
Paper No(s)/Mail Date 6) Other: S. Patent and Trademark Office							

DETAILED ACTION

Election/Restrictions

1. This application contains claims directed to the following patentably distinct species:

Group 1, claims 19-21, 66-75 are drawn to a method of using a floating gate transistor having a a-SiC insulator between floating gate and substrate comprising steps of "storing data by changing charge of floating gate", "reading data by detecting current between source and drain", and "refreshing data based on charge retention time at regular intervals...";

Group 2, claims 28-33, 54-58, 64-65 are drawn to a method of operating a floating gate transistor having steps of "programming floating gate electrode by placing charge on floating gate wherein such floating gate has a barrier energy between gate and a SiC insulator being less than approximately 3.3 eV", and "reading transistor by placing a read voltage on control gate and detecting current between source and drain...";

Group 3, claims 34-38, 59-63 are drawn to a method of operating a floating gate transistor connected to control line and data line comprising steps of "storing data on floating gate by providing control voltage on control line and a write voltage on data line such that charge is carried from substrate to floating gate electrode through SiC insulator", "reading data by placing read voltage on control line and detecting current at the data line", and "erasing by applying an erase voltage of less than 12 volts";

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Group 4, claims 43-44, 47-53 are drawn to a method of operating a floating gate transistor comprising steps of "programming the floating transistor by inducing charge to migrate from channel through the a-SiC gate insulator to floating gate", and "erasing by inducing charge to migrate from floating gate through a-SiC gate insulator to eth channel".

The species are independent or distinct because group 1 claims are drawn to method step of "refreshing data based on charge retention time of the floating gate transistor", group 2 claims are drawn to method step of "reading data by detecting current between source and drain in the substrate", group 3 claims are drawn to method step of "reading data by placing read voltage on control line and detecting current at the data line" and "erasing with a less than 12 V voltage", and group 4 claims are drawn to method step of "programming data by inducing charge to migrate from channel through a-SiC gate insulator to floating gate" and "erasing by inducing charge to migrate from floating gate through a-SiC gate insulator to channel", which are not necessarily all co-existent together in a same patentable invention.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claim is generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim

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is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species.

MPEP § 809.02(a).

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Viet Q. Nguyen whose telephone number is (571) 272-1788. The examiner can normally be reached on 7am-6pm (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amir Zarabian can be reached on (571) 272-1852. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

V. Nguyen 6/22/2006

VIET Q. NGUYEN PRIMARY EXAMINER

V. NZueger